iterative, intrusion, attribute, hierarchy
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1 Unsupervised anomaly detection in network intrusion detection using clusters

Kingsly Leung, Christopher Leckie
January 2005 ACSC '05: Proceedings of the Twenty-eighth Australasian conference on Computer Science - Volume 38, Volume 38
Publisher: Australian Computer Society, Inc.

Full text available: pdf(272.72 KB) Additional Information: full citation, abstract, references, cited by, index terms

Most current network intrusion detection systems employ signature-based methods or data mining-based methods which rely on labelled training data. This training data is typically expensive to produce. Moreover, these methods have difficulty in detecting ...

2 Clustering intrusion detection alarms to support root cause analysis

Klaus Julisch
November 2003 ACM Transactions on Information and System Security (TISSEC), Volume 6 Issue 4
Publisher: ACM
Full text available: pdf(285.72 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

It is a well-known problem that intrusion detection systems overload their human operators by triggering thousands of alarms per day. This paper presents a new approach for handling intrusion detection alarms more efficiently. Central to this approach ...

Keywords: Intrusion detection, cluster analysis, data mining, false positives, root cause analysis

3 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory

November 2000 ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4
Publisher: ACM
Full text available: pdf(156.16 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

4 An entity maintenance and connection service for sensor networks

Brian Blum, Prashant Nagaraddi, Anthony Wood, Tarek Abdelzaher, Sang Son, Jack Stankovic
May 2003 MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services
Publisher: ACM
Full text available: pdf(294.88 KB) Additional Information: full citation, abstract, references, cited by, index terms

In this paper, we present a middleware architecture for coordination services in sensor networks that facilitates interaction between groups of sensors which monitor different environmental events. It sits on top of the native routing infrastructure ...

5 ACM SIGSOFT Software Engineering Notes: Volume 30 Issue 4

July 2005 issue Volume 30 Issue 4
Publisher: ACM
Additional Information: full citation, index terms

6 Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays

André DeHon, Mike Hutton
February 2007 proceeding
Publisher: ACM
Additional Information: full citation, abstract

It is our great pleasure to welcome you to the *15th ACM International Symposium on Field-Programmable Gate Arrays -- FPGA'07* -- the premier conference for the presentation of new research results on programmable architectures, FPGA-based ...

7 A performance analysis method for autonomic computing systems

Marin Litoiu
March 2007 ACM Transactions on Autonomous and Adaptive Systems (TAAS), Volume 2 Issue 1
Publisher: ACM
Full text available: pdf(387.73 KB) Additional Information: full citation, abstract, references, index terms

In an *autonomic computing* system, an autonomic manager makes tuning, load balancing, or provisioning decisions based on a predictive model of the system. This article investigates performance analysis techniques used by the autonomic manager. ...

Keywords: Self-management, autonomic computing, performance models

8 Policy management using access control spaces

Trent Jaeger, Xiaolan Zhang, Antony Edwards
August 2003 ACM Transactions on Information and System Security (TISSEC), Volume 6 Issue 3
Publisher: ACM
Full text available: pdf(360.69 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject or role. For example, the set of permissions ...

Keywords: Access control models, authorization mechanisms, role-based access control

9 Proceedings of the 2007 international conference on Wireless communications and mobile computing

Mohsen Guizani, Hsiao-Hwa Chen, Xi Zhang
August 2007 proceeding
Publisher: ACM
Additional Information: full citation, abstract

On behalf of the Technical Program Committee, I welcome you all to the *ACM International Wireless Communications and Mobile Computing Conference (ACM IWCMC 2007)* in Turtle Bay Resort, Honolulu, Hawaii! I'm delighted that this year's ACM IWCMC ...

10 Highly efficient techniques for network forensics

Miroslav Ponec, Paul Giura, Hervé Brönnimann, Joel Wein
October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security
Publisher: ACM
Full text available: pdf(614.77 KB) Additional Information: full citation, abstract, references, index terms

Given a history of packet transmissions and an excerpt of a possible packet payload, the *payload attribution problem* requires the identification of sources, destinations and the times of appearance on a network of all the packets that contained ...

Keywords: bloom filter, network forensics, payload attribution

11 Point-based computer graphics

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: pdf(8.94 MB) Additional Information: full citation, abstract, cited by

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research ...

12 A secure distributed framework for achieving *k*-anonymity

Wei Jiang, Chris Clifton
November 2006 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 15 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(990.09 KB) Additional Information: full citation, abstract, references

k-anonymity provides a measure of privacy protection by preventing re-identification of data to fewer than a group of *k* data items. While algorithms exist for producing *k*-anonymous data, the model has been that of a single source ...

Keywords: Anonymity, Privacy, Security

13 A survey of autonomic communications

Simon Dobson, Spyros Denazis, Antonio Fernández, Dominique Gaïti, Erol Gelenbe, Fabio Massacci, Paddy Nixon, Fabrice Saffre, Nikita Schmidt, Franco Zambonelli
December 2006 ACM Transactions on Autonomous and Adaptive Systems (TAAS), Volume 1 Issue 2
Publisher: ACM
Full text available: pdf(300.86 KB) Additional Information: full citation, abstract, references, index terms

Autonomic communications seek to improve the ability of network and services to cope with unpredicted change, including changes in topology, load, task, the physical and logical characteristics of the networks that can be accessed, and so forth. Broad-ranging ...

Keywords: Autonomic communication

14 Detecting distributed scans using high-performance query-driven visualization

Kurt Stockinger, E. Wes Bethel, Scott Campbell, Eli Dart, Kesheng Wu
November 2006 SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing
Publisher: ACM
Full text available: pdf(433.00 KB) html(2.35 KB) Additional Information: full citation, abstract, references, index terms

Modern forensic analytics applications, like network traffic analysis, perform high-performance hypothesis testing, knowledge discovery and data mining on very large datasets. One essential strategy to reduce the time required for these operations is ...

Keywords: data mining, network connection analysis, network security, query-driven visualization, visual analytics

15 Minimizing inter-cluster interference by self-reorganizing MAC allocation in sensor networks

Tao Wu, Subir Biswas
October 2007 Wireless Networks, Volume 13 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(580.34 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a Self-Reorganizing Slot Allocation (SRSA) mechanism for TDMA based Medium Access Control (MAC) protocols in wireless sensor networks. With TDMA, a node can achieve significant energy savings by remaining active only during allocated ...

Keywords: CDMA, TDMA, energy efficiency, medium access control (MAC), self-reorganization, sensor clusters, sensor networks, simulation, system design

16 The language of privacy: Learning from video media space analysis and design

Michael Boyle, Saul Greenberg
June 2005 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 12 Issue 2
Publisher: ACM
Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, cited by, index terms

Video media spaces are an excellent crucible for the study of privacy. Their design affords opportunities for misuse, prompts ethical questions, and engenders grave concerns from both users and nonusers. Despite considerable discussion of the privacy ...

Keywords: Human-computer interaction, autonomy, computer-supported cooperative work (CSCW), confidentiality, environmental psychology, privacy, social interaction, solitude, user interface design, video media spaces

17 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 ACM SIGSOFT Software Engineering Notes, Volume 30 Issue 4

Publisher: ACM

Full text available: pdf(6.19 MB)

Additional Information: full citation, index terms

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